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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet		1	of	6

Complete if Known			
Application Number	40/766146		
Filing Date	7-27-04		
First Named Inventor	Woonza M. RHEE et al.		
Art Unit	1645		
Examiner Name	CorRosenthal		
Attorney Docket Number	2500-2287.06		

U.S. PATENT DOCUMENTS							
Examiner	Cite	Document No.	Issue Date or	Name of Patentee or	Class	Subclass	Filing Date
Initials*	No.		Publication Date	Applicant of Cited Document	1	3000111111	if Appropriate
CR	AA	3,619,371	11/1971	Crook et al.	<u> </u>	-	
	AB	3,742,955	7/1973	Battista et al.	-		
	AC	3,788,948	1/1974	Kegadal et al.	ļ		
	AD	3,810,473	5/1974	Cruz, Jr. et al.	<u> </u>		
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	AZ	4,412,989	11/1983	Iwashita	<u> </u>	<u> </u>	
	BA	4,414,147	11/1983	Klibanov et al.			
<del>-                                    </del>	BB	4,415,628	11/1983	Cioca et al.	<b></b>		
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-	BD	4,424,208	1/1984	Wallace et al.			
	BE	4,451,568	5/1984	Sneider et al.	<del>                                     </del>	<del> </del>	
	BF	4,488,911	12/1984	Luck et al.	<del>                                     </del>		
	BG	4,495,285	1/1985	Shimizu et al.	<del> </del>	<del> </del>	
	BH	4,496,689	1/1985	Mitra	+		
	BI	4,515,637	5/1985	Cioca	<del> </del>	<del> </del>	
	BJ	4,544,516	10/1985	Hughes et al.	+	<del> </del>	
<del></del>	BK	4,553,974	11/1985	Dewanjee	<del>                                     </del>	-	
			12/1985		<del> </del>	<del> </del>	
	BL	4,557,764		Chu Nothan at al		<del> </del>	
	BM	4,563,350	1/1986	Nathan et al.	<del>                                     </del>	<del> </del>	
	BN	4,563,351	1/1986	Nathan et al.	<del> </del>	<del> </del>	
<del></del>	BO	4,563,490	1/1986	Stol et al.	<del> </del>	<b></b>	
—₩	BP	4,578,067	3/1986	Cruz, Jr.	<b></b>	<del> </del>	
1	BQ	4,582,640	4/1986	Smestad et al.			

Examiner Signature Considered 12 30 04

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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Sheet	2	of	

Complete if Known			
Application Number	101766146		
Filing Date	11-27-04		
First Named Inventor	Woonza M. RHEE et al.		
Art Unit	16150		
Examiner Name	C. Rasenthal		
Attorney Docket Number	2500-2287.06		

U.S. PATENT DOCUMENTS							
Examiner	Cite	Document No.	Issue Date or	Name of Patentee or	Class	Subclass	Filing Date
Initials*	No.		Publication Date	Applicant of Cited Document	1		if Appropriate
CR	BR	4,592,864	6/1986	Miyata et al.		<del> </del>	
	BS	4,600,533	7/1986	Chu	<del>                                     </del>		
	BT	4,642,117	2/1987	Nguyen	<u> </u>	-	
	BU	4,655,980	4/1987	Chu			
	BV	4,670,417	6/1987	Iwasaki et al.	<del></del>	ļ	
	BW	4,678,468	7/1987	Hiroyoshi	<del> </del>	ļ	
_	BX	4,687,820	8/1987	Hou et al.	-		
	BY	4,689,399	8/1987	Chu			<u> </u>
	BZ	4,703,108	10/1987	Silver et al.	<u> </u>	ļ	<u> </u>
	CA	4,704,131	11/1987	Noishiki et al.	.	ļ	ļ
	CB	4,725,671	2/1988	Chu et al.	ļ	<u> </u>	
	CC	4,732,863	3/1988	Tomasi	<u> </u>	ļ	
	CD	4,737,544	4/1988	McCain et al.	<u> </u>		
	CE	4,745,180	5/1988	Moreland et al.			<u> </u>
	CF	4,766,106	8/1988	Katre			
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	CH	4,789,663	12/1988	Wallace et al.			
	CI	4,795,467	1/1989	Piez et al.			
	CJ	4,828,563	5/1989	Müller-Lierheim			
	CK	4,847,325	7/1989	Shadle et al.			
	CL	4,851,513	7/1989	Devore et al.			
	CM	4,886,866	12/12/89	Braatz et al.			
	CN	4,935,465	6/1990	Garman			
	CO	4,950,483	8/1990	Ksander			
	CP	4,950,699	8/1990	Holman			
	CQ	4,973,493	11/1990	Guire			
	CR	4,979,959	12/1990	Guire		1	
	CS	4,980,403	12/1990	Bateman et al.		· · · · · · · · · · · · · · · · · · ·	
	CT	4,983,580	1/1991	Gibson			
	CU	5,024,742	6/1991	Nesburn et al.			
	CV	5,108,957	4/1992	Kelman et al.			
	CW	5,122,614	6/1992	Zalipsky			
	CX	5,141,747	8/1992	Scholz			
-	CY	5,156,613	10/1992	Sawyer	<b>†</b>		
	CZ	5,162,430	11/1992	Rhee et al.	1	1	<del> </del>
	DA	5,167,960	12/1992	Ito et al.	<del>                                     </del>	<b>†</b>	
<del></del>	DB	5,169,754	12/1992	Siiman et al.	<del> </del>		
	DC	5,192,316	3/1993	Ting	1	<del>                                     </del>	<u> </u>
	DD	5,198,493	3/1993	Holmberg et al.	<del> </del>	<del> </del>	
	DE	5,201,764	4/1993	Kelman et al.	<del> </del>	<del></del>	
	DF		5/1993	Bass et al.	<del>                                     </del>	<del>                                     </del>	
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<u> </u>	DG	5,219,564	6/1993	Zalipsky et al.	<del> </del>	<del> </del>	<u> </u>
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Examiner	NO	TH 1	Date	12-2-21
Signature	Cose	ul hot	Considered	12-30-04

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	3	of	6

Complete if Known			
Application Number	CLOY 67 Ce:(e) 114 Ce/364,762		
Filing Date	Fired 2277 vio 4		
First Named Inventor	Woonza M. RHEE et al.		
Art Unit	Utra i Sied		
Examiner Name	Was ROSENHAL		
Attorney Docket Number	2500-2287.06		

	U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document No.	Issue Date or Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date if Appropriate
CR	DĬ	5,264,214	11/1993	Rhee et al.			
1	DJ	5,290,552	3/1994	Sierra et al.			
	DK	5,292,802	3/1994	Rhee et al.			
	DL	5,298,643	3/1994	Greenwald			
	DM	5,304,595	4/1994	Rhee et al.			
	DN	5,306,500	4/1994	Rhee et al.			
	DO	5,308,889	5/1994	Rhee et al.			
	DP	5,321,095	6/1994	Greenwald			
	DQ	5,324,775	6/1994	Rhee et al.	٧		
	DR	5,324,844	6/1994	Zalipsky			
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	DT	5,349,001	9/1994	Greenwald et al.			
	DU	5,354,336	10/1994	Kelman et al.			
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	DY	5,428,022	6/1995	Palefsky et al.			
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Examiner	10 4	Date	12 22 - 01
Signature		Considered	12-30-04

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	4	of	•

Complete if Known			
Application Number	[LO.1.766146		
Filing Date	1-2-7-04		
First Named Inventor	Woonza M. RHEE et al.		
Art Unit	1.6.15		
Examiner Name	C. Rosenthal		
Attorney Docket Number	2500-2287.06		

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	EU	EP 0013249	1/1980	Europe			
	EV	EP 0042253	12/1981	Europe			
	EW	EP 0154447	9/1985	Europe			
	EX	EP 0157359	10/1985	Еигоре			
	EY	EP 0171176	2/1986	Europe			
	EZ	EP 0243179	10/1987	Europe			
	FA	EP 0330389	8/1989	Europe			
	FB	EP 0341007	11/1989	Europe			
	- FC	EP 0431479A1	6/1991	Europe			
	FD	EP 0466383	1/1992	Europe			
	FE	EP 0575273	12/1993	Europe			
	FF	EP 0640647	3/1995	Europe			
	FG	EP 0656214	6/1995	Europe			
	FH	EP 0656215	6/1995	Europe			
	FI	EP 0680990	11/1995	Europe			
	FJ	EP 0732109	9/1996	Europe			
	FK	FR 2628634	9/1989	France			
	FL	JP 4-227265	4/1990	Japan			
	FM	JP 60-70972	3/1994	Japan			
	FN	JP 07-090241	4/1995	Japan			
	FO	WO 84/01106	3/1984	PCT NO			
	FP	WO 85/04412	10/1985	0 W 12A			
	FQ	WO 87/04078	7/1987	PCT WO			
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4	FT	WO 92/13578	8/1992	PQT WO			
	FU	WO 94/01483	1/1994	PQT WO			
	FV	WO 94/03155	2/1994	PQT WO			
4	FW	GB 1059455	2/22/67	United Kingdom			

		OTHER DOCUMENTS — NONPATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), Title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
CR	FX	Poly(Eethylene Glycol) Chemistry: Biotechnical & Biomedical Applications, Chapter 22, J. Milton Harris, Ed., Plenum Press, NY (1992).	
	FY	Abuchowski et al. (1977), "Alteration of immunological properties of bovine serum albumin by covalent trachment of polyethylene glycol," <i>Biol. Chem.</i> 252(11):3578-3581.	
	FZ	Abuchowski et al. (1984), "Cancer therapy with chemically modified enzymes. 1. Antitumor properties of polyethylene glycol-asparaginase conjugates," <i>Cancer Biochem. Biophys.</i> 2:175-186.	
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(use as many sheets as necessary)

<	of	6
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Complete if Known				
Application Number	10/76ele-1460			
Filing Date	11-27-04			
First Named Inventor	Woonza M. RHEE et al.			
Art Unit	1615			
Examiner Name	C. Rosenthal			
Attorney Docket Number	2500-2287.06			

Examiner	Cite	OTHER DOCUMENTS — NONPATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), Title of the item (book, magazine,	T
Initials*	No.	journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	L
1 / 7 / 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Anderson et al. (1964), "The use of esters of n-hydroxysuccinimide in peptide synthesis," [???]	
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,	GC	Beauchamp et al. (1983), "A new procedure for the synthesis of polyethylene glycol-protein adducts:	
(		Effects on fuction, receptor recognition, and clearance of superoxide dismutase, lactoferrin, and	
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	GD	Bendich et al. (1982), "Immunological effects of native and polyethylene glycol-modified asparaginases	ı
1 1		from Vibro succinogenes and Escherichia coli in normal and tumor-bearing mice," Clin. Exp. Immunol.	ı
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		Adsorption," J. Biomater. Sci. Polymer Edn. 3(6):451-462.	L
	GF	Chen et al. (1981), "Properties of two urate oxidases modified by the covalent attachment of poly(ethylene	Г
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	GG	Chyapil et al. (1969), "Some chemical and biological characteristics of a new collagen-polymer compound	Τ
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	GI	Doillon et al. (1986), J. Biomed. Mat. Res. 20(8):1219-1228.	T
	GJ	Ferruti (1981), "Succinic half-esters of poly(ethylene glycol)s and their benzotriazole and imidazole	Τ
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	GK	Fleisher et al. (1987), "Regeneration of lost attachment apparatus in the dog using polygalactin-910," J.	T
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	GL	Gander et al. (1988), "Crosslinked poly(alkylene oxides) for the preparation of controlled release	T
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Examiner Signature Date Considered 12-30-04

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

heet 6 of	

Complete if Known			
Application Number	10/766146		
Filing Date	1/27/2004		
First Named Inventor	Woonza M. RHEE et al.		
Art Unit	1615		
Examiner Name	Casey Rosenthal		
· Attorney Docket Number	2500-2287.06		

		OTHER DOCUMENTS — NONPATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), Title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
CR	GY	Sawhney et al. (1994), "Optimization of photopolymerized bioerodible hydrogel properties for adhesion prevention," <i>J. Biomed. Mat. Res.</i> 28:831-838.	
}	GZ	Sperinde et al. (1997), "Phase transformation poly(ethylene glycol) hydrogels for tissue engineering and cell therapies," 23 <sup>rd</sup> Annual Meeting of the Society for Biomaterials, p. 247.	
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	HB	Takahashi et al. (1984), "A chemical modification to make horseradish peroxidase soluble and active in benzene," <i>Biochem. &amp; Biophys. Res. Comm.</i> 121:261-265.	
	HC	Tulandi (1991), "Effects of fibrin sealant on tubal anastomosis and adhesion formation," Fertility and Sterility 56(1):136-138.	
	HD	Ulbrich et al. (1986), "Poly(ethylene glycol)s containing enzymatically degradable bonds," Makromol. Chem. 187:1131-1144.	
	HE	Urman et al. (1991), "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," Fertility and Sterility <u>56(3)</u> :568-570.	
	HF	Viau et al. (1986), "Safety evaluation of free radical scavengers PEG-catalase and PEG-superoxide dismutase," J. Free Rad. In Bio. & Med. 2:283-288.	
	HG	Viau et al. (1986), "Toxicologic studies of a conjugate of asparaginase and polyethylen glycol in mice, rats and dogs," Am. J. Vet. Res. 47:1398-1401.	
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V	HI	Wieder et al. (1979), "Some properties of polyethylene glycol: Phenylalanine ammonia-lyase adducts," <i>J. Biol. Chem.</i> 254:12579-12587.	

Examiner		Date	(2. 2. 2. 6.
Signature		Considered	12-30-04